

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 61217716
PUBLICATION DATE : 27-09-86

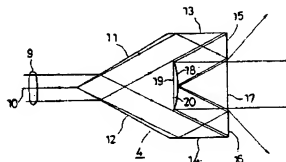
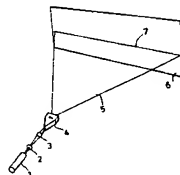
APPLICATION DATE : 22-03-85
APPLICATION NUMBER : 60059167

APPLICANT : OZAKI YASUTO;

INVENTOR : OZAKI YASUTO;

INT.CL. : G01C 15/00 G02B 17/08 G02B 27/00
G02B 27/30

TITLE : APPARATUS FOR OBTAINING
PROJECTION LIGHT USING LASER
LIGHT



ABSTRACT : PURPOSE: To obtain a projection light without discontinuity, by producing a sector-shaped diffusion beam with a single cylindrical convex reflection surface provided on a prism.

CONSTITUTION: After diffused slightly with a concave lens 2, a light beam of a laser light source 1 is converged to focus on a projection surface with a convex lens 3 and diffused at a wide range only in one direction with a prism 4 to obtain a sector beam 5 while a linear projection light 7 is obtained on a projection surface. In this case, out of the laser beams 9 incident along the optical axis 10 of the prism 4, the beam incident into the left incident surface 11 is refracted to the right and after totally reflected on the right side 14, it is reflected again on a front reflection surface 16 hitting the right half of a cylindrical reflection surface 18, where it is reflected in diffusion and further refracted on a radiation surface 17 at the front center to be radiated left in front of the prism. The light incident into the right incident surface 12 is likewise radiated right in front of the prism via the left side 13, the left front reflection surface 15, the cylindrical reflection surface 18 and the radiation surface 17 at the front center.

COPYRIGHT: (C)1986,JPO&Japio